

wherein the outer threaded surface of the fuze adapter is secured to the inner surface of the body; and

wherein the inner threaded surface of the fuze adapter is secured to the threaded plug.

2. The projectile of claim 1, wherein the fuze adapter is comprised of a cylindrical ring.

3. The projectile of claim 2, wherein the fuze adapter has a diameter of approximately 1.5 inches.

4. The projectile of claim 3, wherein the fuze adapter has a length of approximately 0.64 inch.

5. The projectile of claim 4, wherein the fuze adapter is made of ionomer plastic.

6. The projectile of claim 1, wherein the explosive includes an insensitive melt-castable explosive having a predetermined auto-ignition temperature.

7. The projectile of claim 6, wherein the fuze adapter is made of a material that has a melting point below the auto-ignition temperature of the explosive, such that during the unplanned thermal stimulus such the fuze adapter is melted upon reaching the melting point, prior to the explosive reaching the auto-ignition temperature.

8. The projectile of claim 7, wherein upon melting of the fuze adapter, the fuze becomes detached from the body, thereby allowing combustion gas generated by an explosive that has auto-ignited to vent out the body.

9. The projectile according to claim 8, wherein the body is secured to the fuze via a threaded opening.

10. The projectile of claim 9, wherein, as the unplanned thermal stimulus continues to heat the projectile, the explosive begins to burn upon reaching the auto-ignition temperature and to generate a combustion gas; and

wherein the combusting explosive expels the fuze from the body, thereby enabling pressure generated by the combustion gas to be relieved via the threaded opening.

11. The projectile of claim 1, wherein the projectile body is made of a steel shell having an ogival shape.

12. The projectile of claim 1, further including an obturating ring secured to the body.

13. The projectile according to claim 12, further including a tail fin.

14. The projectile of claim 13, wherein the body is secured to the tail fin via a threaded portion.

15. The projectile of claim 14, wherein the tail fin comprises a plurality of fins that maintain a flight path of the projectile.

16. The projectile of claim 15, wherein the tail section further comprises an ignition cartridge.

17. The projectile of claim 16, wherein the tail fin further comprises a plurality of vent holes.

18. The projectile of claim 17, wherein the tail section further comprises a plurality of propelling charge containers for holding a propelling charge; and wherein upon firing of the projectile, the ignition cartridge is impacted to cause the propelling charge to combust inside the tail fin, which, in turn, causes the propelling charge outside the tail fin to combust and to generate a combustible gas and pressure to propel the projectile forward in flight.

(Claims 19 – 24 are cancelled, without prejudice).

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Date

Respectfully,

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